

# Active Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G) Protein, His-tagged

**Cat. No.** S-449S    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His Recombinant Protein (YP_009724390.1) (Met1-Arg685(K417N, E484K, N501Y, D614G)) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus.                                                            |
| <b>Species</b>              | SARS-CoV-2                                                                                                                                                                                                                                                                                     |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>        | 1-685                                                                                                                                                                                                                                                                                          |
| <b>Predicted N Terminal</b> | Val 16                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>         | Measured by its binding ability in a functional ELISA. Immobilized Human ACE2 (mFc tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His, the EC50 of SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His is 15-90 ng/mL.         |
| <b>Molecular Mass</b>       | The recombinant SARS-CoV-2 (2019-nCoV) Spike S1(K417N, E484K, N501Y, D614G)-His Recombinant Protein consists of 681 amino acids and predicts a molecular mass of 76.4 kDa. As a result of glycosylation, it migrates as an approximately 114.7 kDa band in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU/µg protein as determined by the LAL method.                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                           |
| <b>Storage</b>          | <p>Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.</p> <p>Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> |
| <b>Storage Buffer</b>   | <p>Lyophilized from sterile PBS, pH 7.4.</p> <p>Please contact us for any concerns or special requirements.</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.</p>                                            |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | S                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>         | S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein                                                                                                                                                                        |
| <b>Gene ID</b>          | 43740568                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>      | MN908947                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | YP_009724390                                                                                                                                                                                                                                                                |
| <b>Activity</b>         |                                                                                                                                                                                                                                                                             |
| <b>SDS-PAGE</b>         |                                                                                                                                                                                                                                                                             |

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